FIG. 1

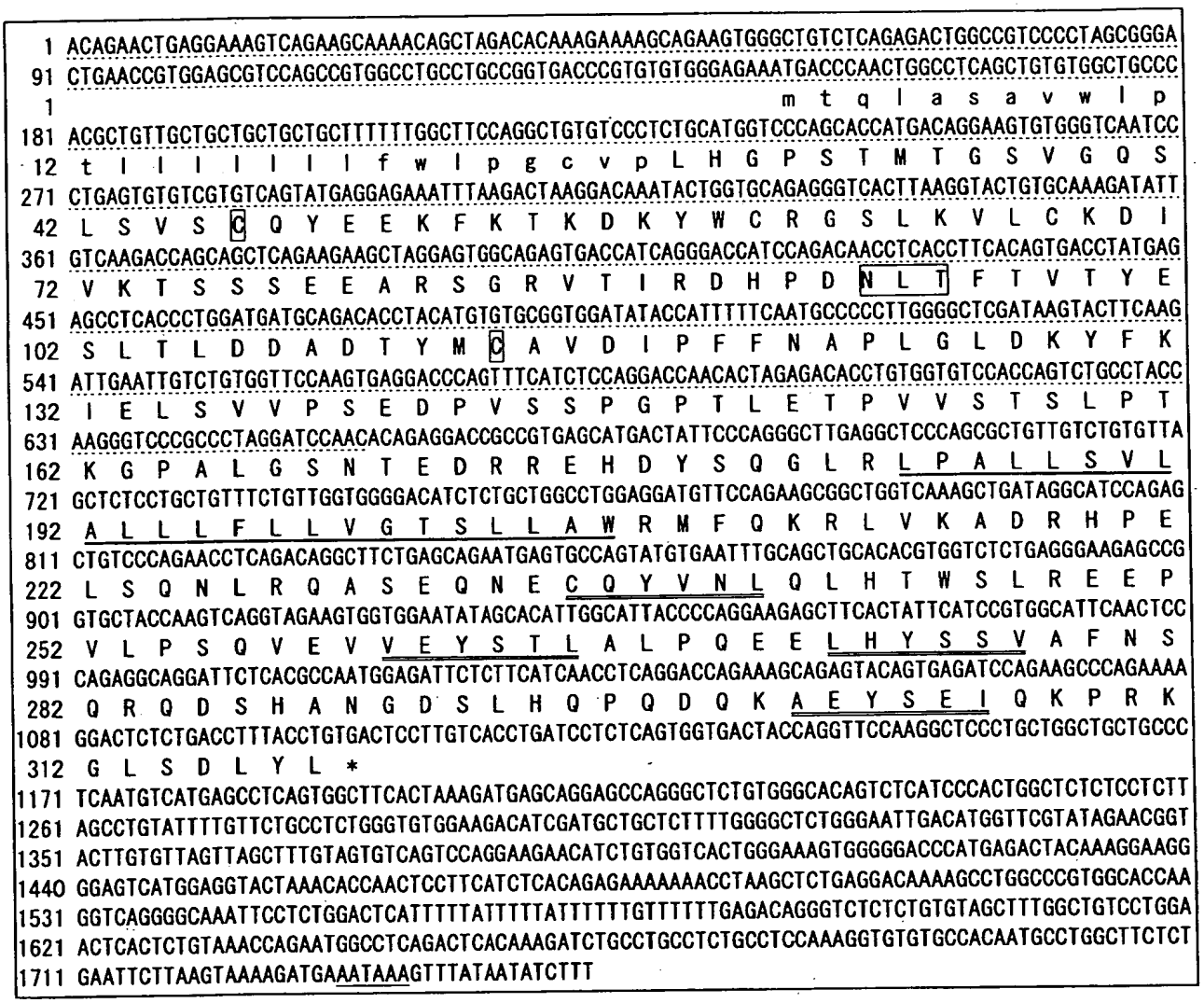

1 ACAGAACTGAGGAAAGTCAGAAGCAAAACAGCTAGACACAAAGAAAAGCAGAAGTGGGCTGTCTCAGAGACTGGCCGTCCCCTAGCGGGA
91 CTGAACCGTGGAGCGTCCAGCCGTGGCCTGCCTGCCGGTGACCCGTGTGTGGGAGAAATGACCCAACTGGCCTCAGCTGTGTGGCTGCCC
1 m t q l a s a v w l p
181 ACGCTGTTGCTGCTGCTGCTGCTTTTTTGGCTTCCAGGCTGTGTCCCTCTGCATGGTCCCAGCACCATGACAGGAAGTGTGGGTCAATCC
12 t l l l l l l l f w l p g c v p L H G P S T M T G S V G Q S
271 CTGAGTGTGTCGTGTCAGTATGAGGAGAAATTTAAGACTAAGGACAAATACTGGTGCAGAGGGTCACTTAAGGTACTGTGCAAAGATATT
42 L S V S C Q Y E E K F K T K D K Y W C R G S L K V L C K D I
361 GTCAAGACCAGCAGCTCAGAAGAAGCTAGGAGTGGCAGAGTGACCATCAGGGACCATCCAGACAACCTCACCTTCACAGTGACCTATGAG
72 V K T S S S E E A R S G R V T I R D H P D N L T F T V T Y E
451 AGCCTCACCCTGGATGATGCAGACACCTACATGTGTGCGGTGGATATACCATTTTTCAATGCCCCCTTGGGGCTCGATAAGTACTTCAAG
102 S L T L D D A D T Y M C A V D I P F F N A P L G L D K Y F K
541 ATTGAATTGTCTGTGGTTCCAAGTGAGGACCCAGTTTCATCTCCAGGACCAACACTAGAGACACCTGTGGTGTCCACCAGTCTGCCTACC
132 I E L S V V P S E D P V S S P G P T L E T P V V S T S L P T
631 AAGGGTCCCGCCCTAGGATCCAACACAGAGGACCGCCGTGAGCATGACTATTCCCAGGGCTTGAGGCTCCCAGCGCTGTTGTCTGTGTTA
162 K G P A L G S N T E D R R E H D Y S Q G L R L P A L L S V L
721 GCTCTCCTGCTGTTTCTGTTGGTGGGGACATCTCTGCTGGCCTGGAGGATGTTCCAGAAGCGGCTGGTCAAAGCTGATAGGCATCCAGAG
192 A L L L F L L V G T S L L A W R M F Q K R L V K A D R H P E
811 CTGTCCCAGAACCTCAGACAGGCTTCTGAGCAGAATGAGTGCCAGTATGTGAATTTGCAGCTGCACACGTGGTCTCTGAGGGAAGAGCCG
222 L S Q N L R Q A S E Q N E C Q Y V N L Q L H T W S L R E E P
901 GTGCTACCAAGTCAGGTAGAAGTGGTGGAATATAGCACATTGGCATTACCCCAGGAAGAGCTTCACTATTCATCCGTGGCATTCAACTCC
252 V L P S Q V E V V E Y S T L A L P Q E E L H Y S S V A F N S
991 CAGAGGCAGGATTCTCACGCCAATGGAGATTCTCTTCATCAACCTCAGGACCAGAAAGCAGAGTACAGTGAGATCCAGAAGCCCAGAAAA
282 Q R Q D S H A N G D S L H Q P Q D Q K A E Y S E I Q K P R K
1081 GGACTCTCTGACCTTTACCTGTGACTCCTTGTCACCTGATCCTCTCAGTGGTGACTACCAGGTTCCAAGGCTCCCTGCTGGCTGCTGCCC
312 G L S D L Y L *
1171 TCAATGTCATGAGCCTCAGTGGCTTCACTAAAGATGAGCAGGAGCCAGGGCTCTGTGGGCACAGTCTCATCCCACTGGCTCTCTCCTCTT
1261 AGCCTGTATTTTGTTCTGCCTCTGGGTGTGGAAGACATCGATGCTGCTCTTTTGGGGCTCTGGGAATTGACATGGTTCGTATAGAACGGT
1351 ACTTGTGTTAGTTAGCTTTGTAGTGTCAGTCCAGGAAGAACATCTGTGGTCACTGGGAAAGTGGGGGACCCATGAGACTACAAAGGAAGG
1440 GGAGTCATGGAGGTACTAAACACCAACTCCTTCATCTCACAGAGAAAAAAACCTAAGCTCTGAGGACAAAAGCCTGGCCCGTGGCACCAA
1531 GGTCAGGGGCAAATTCCTCTGGACTCATTTTTATTTTTATTTTTTGTTTTTTGAGACAGGGTCTCTCTGTGTAGCTTTGGCTGTCCTGGA
1621 ACTCACTCTGTAAACCAGAATGGCCTCAGACTCACAAAGATCTGCCTGCCTCTGCCTCCAAAGGTGTGTGCCACAATGCCTGGCTTCTCT
1711 GAATTCTTAAGTAAAAGATGAAATAAAGTTTATAATATCTTT

FIG. 2

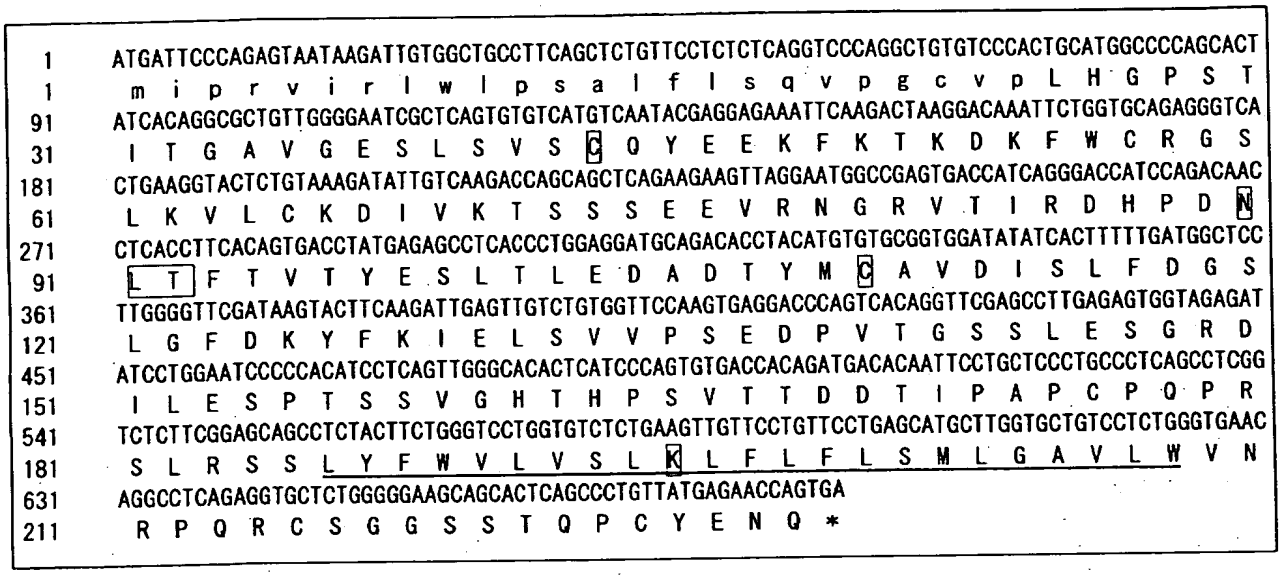

1 ATGATTCCCAGAGTAATAAGATTGTGGCTGCCTTCAGCTCTGTTCCTCTCTCAGGTCCCAGGCTGTGTCCCACTGCATGGCCCCAGCACT
1 m i p r v i r l w l p s a l f l s q v p g c v p L H G P S T
91 ATCACAGGCGCTGTTGGGGAATCGCTCAGTGTGTCATGTCAATACGAGGAGAAATTCAAGACTAAGGACAAATTCTGGTGCAGAGGGTCA
31 I T G A V G E S L S V S C Q Y E E K F K T K D K F W C R G S
181 CTGAAGGTACTCTGTAAAGATATTGTCAAGACCAGCAGCTCAGAAGAAGTTAGGAATGGCCGAGTGACCATCAGGGACCATCCAGACAAC
61 L K V L C K D I V K T S S S E E V R N G R V T I R D H P D N
271 CTCACCTTCACAGTGACCTATGAGAGCCTCACCCTGGAGGATGCAGACACCTACATGTGTGCGGTGGATATATCACTTTTTGATGGCTCC
91 L T F T V T Y E S L T L E D A D T Y M C A V D I S L F D G S
361 TTGGGGTTCGATAAGTACTTCAAGATTGAGTTGTCTGTGGTTCCAAGTGAGGACCCAGTCACAGGTTCGAGCCTTGAGAGTGGTAGAGAT
121 L G F D K Y F K I E L S V V P S E D P V T G S S L E S G R D
451 ATCCTGGAATCCCCCACATCCTCAGTTGGGCACACTCATCCCAGTGTGACCACAGATGACACAATTCCTGCTCCCTGCCCTCAGCCTCGG
151 I L E S P T S S V G H T H P S V T T D D T I P A P C P Q P R
541 TCTCTTCGGAGCAGCCTCTACTTCTGGGTCCTGGTGTCTCTGAAGTTGTTCCTGTTCCTGAGCATGCTTGGTGCTGTCCTCTGGGTGAAC
181 S L R S S L Y F W V L V S L K L F L F L S M L G A V L W V N
631 AGGCCTCAGAGGTGCTCTGGGGGAAGCAGCACTCAGCCCTGTTATGAGAACCAGTGA
211 R P Q R C S G G S S T Q P C Y E N Q *

FIG. 3

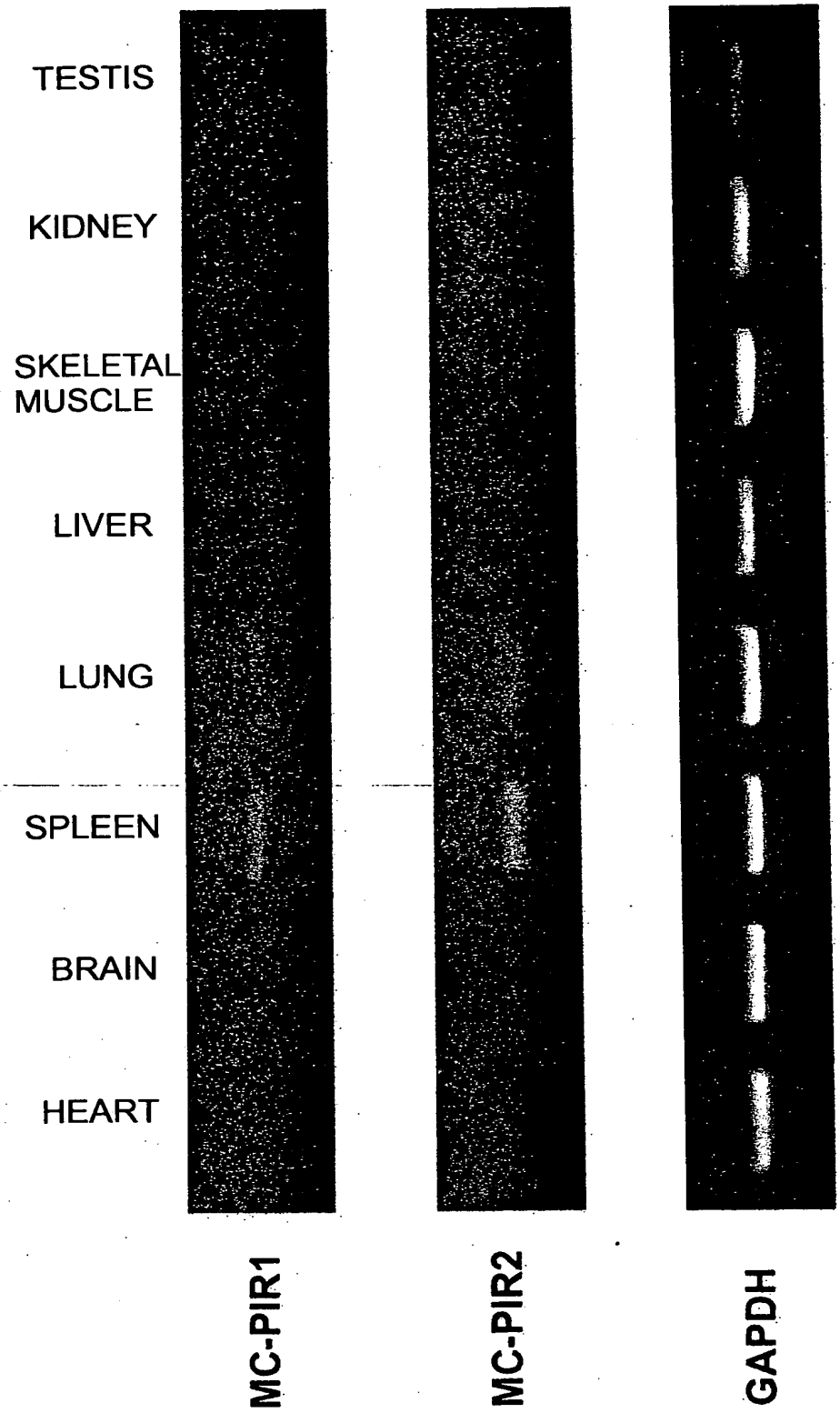

TESTIS
KIDNEY
SKELETAL MUSCLE
LIVER
LUNG
SPLEEN
BRAIN
HEART
MC-PIR1
MC-PIR2
GAPDH

FIG. 4

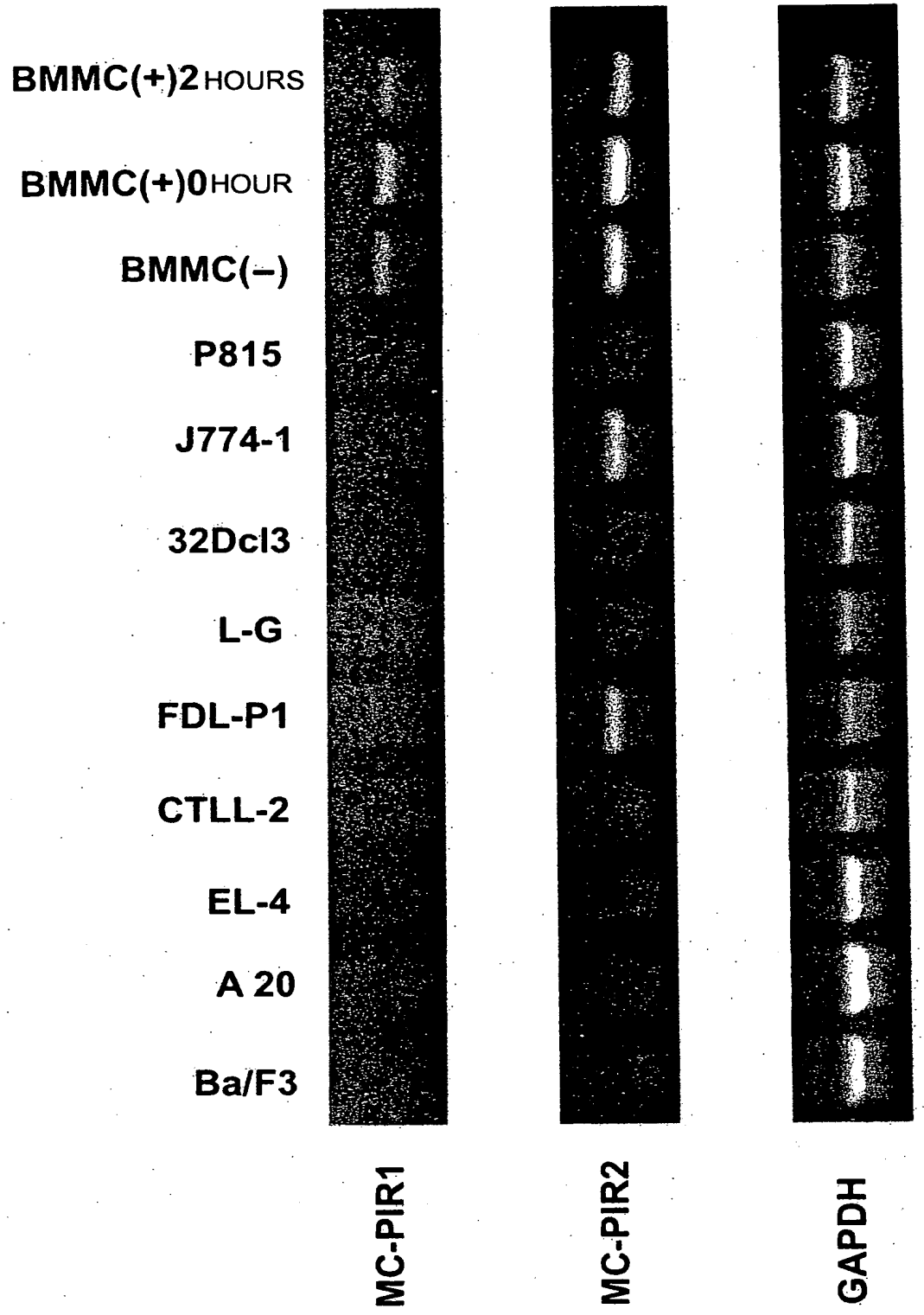

BMMC(+)2 HOURS
BMMC(+)0 HOUR
BMMC(–)
P815
J774-1
32Dcl3
L-G
FDL-P1
CTLL-2
EL-4
A 20
Ba/F3
MC-PIR1
MC-PIR2
GAPDH

FIG. 5

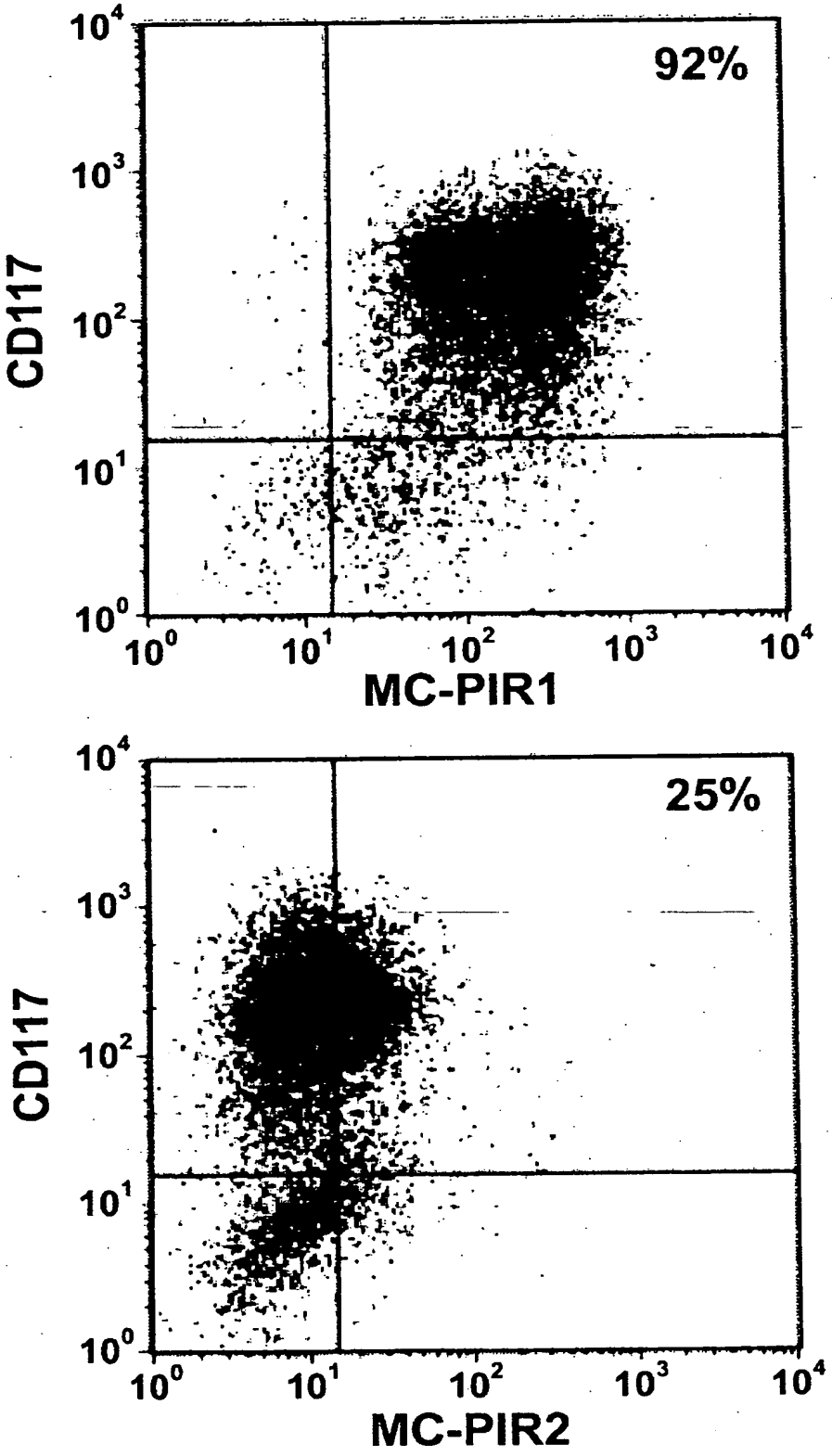


FIG. 6

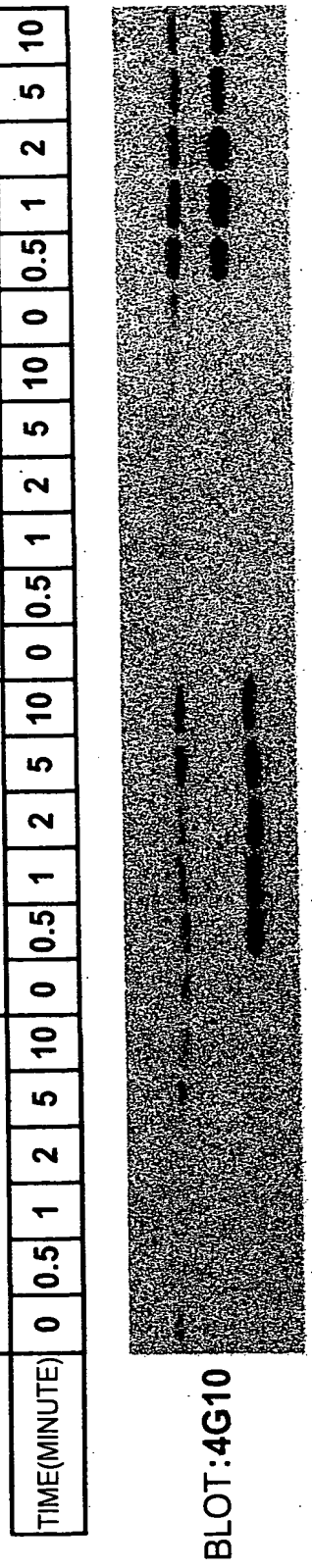

TIME(MINUTE)
FcγRIIb
α-MOUSE IgG, F(ab')2
0
0.5
1
2
5
10
α-MOUSE IgG, INTACT
0
0.5
1
2
5
10
FcγRIIb-IR
α-MOUSE IgG, F(ab')2
0
0.5
1
2
5
10
α-MOUSE IgG, INTACT
0
0.5
1
2
5
10
BLOT:4G10

FIG. 7

	FcγRIIb			Fc-PIR1		
α-MOUSE IgG, F(ab')2	-	+	-	-	+	-
α-MOUSE IgG, INTACT	-	-	+	-	-	+

BLOT: α SHP-1

	FcγRIIb			Fc-PIR1		
α-MOUSE IgG, F(ab')2	-	+	-	-	+	-
α-MOUSE IgG, INTACT	-	-	+	-	-	+

BLOT: α SHP-2

	FcγRIIb			Fc-PIR1		
α-MOUSE IgG, F(ab')2	-	+	-	-	+	-
α-MOUSE IgG, INTACT	-	-	+	-	-	+

BLOT: α SHIP

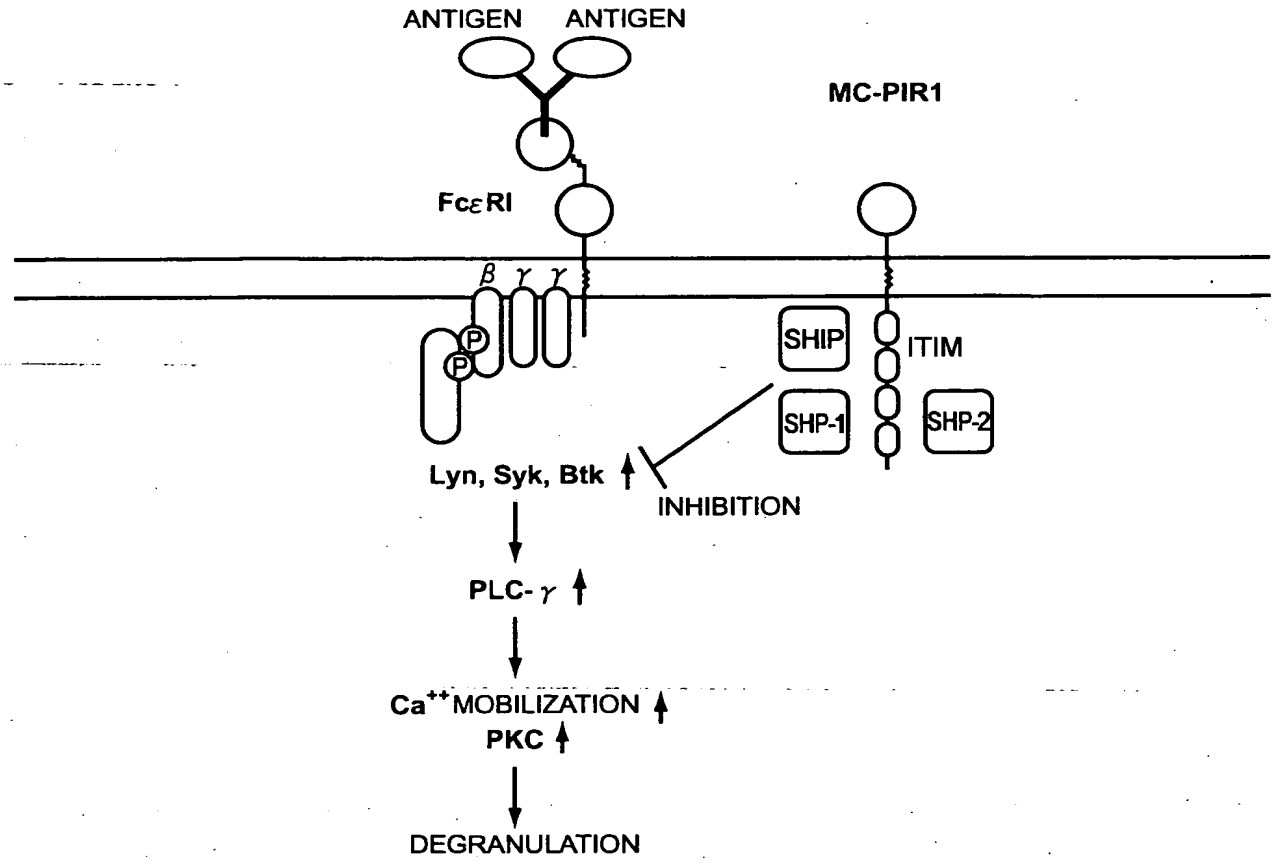
FIG. 8

IMMUNOPRECIPITATION : αHA

	MC-PIR2-HA			
MOCK	+	-	-	-
FLAG-DAP10	-	+	-	-
FLAG-DAP12	-	-	+	-
FLAG-FcRγ	-	-	-	+

WESTERN BLOT
: αFLAG

FIG. 9


ANTIGEN
ANTIGEN
MC-PIR1
FcεRI
β γ γ
P
P
SHIP
ITIM
SHP-1
SHP-2
Lyn, Syk, Btk
INHIBITION
PLC-γ
Ca++MOBILIZATION
PKC
DEGRANULATION